

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L13	15825	heat\$3 expand\$3 (material or substance or liquid or solid)	US-PGPUB; USPAT	WITH	ON	2006/09/05 15:01
L15	795	13 and (expell or remove or deliver) with (reservoir or storage or chamber)	US-PGPUB; USPAT	WITH	ON	2006/09/05 14:54
L16	60072	("604").CLAS.	USPAT; USOCR	OR	OFF	2006/09/05 14:55
L17	16	15 and 16	US-PGPUB; USPAT	WITH	ON	2006/09/05 14:55
L18	18574	(heat\$3 or thermal) expand\$3 (material or substance or liquid or solid)	US-PGPUB; USPAT	WITH	ON	2006/09/05 15:02
L19	2749	18 not 13	US-PGPUB; USPAT	WITH	ON	2006/09/05 15:02
L20	13	19 and 16	US-PGPUB; USPAT	WITH	ON	2006/09/05 15:02
L22	7	("4732930"   "5263323"   "5368570"   "5403893"   "5505706"   "5693108").PN. OR ("6200293").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2006/09/05 15:16
L23	7	bellows accumulator propellant	US-PGPUB; USPAT; USOCR	WITH	ON	2006/09/05 15:17
L24	258	(bellows or accumulator) propellant	US-PGPUB; USPAT; USOCR	WITH	ON	2006/09/05 15:22
L25	52	24 and needle	US-PGPUB; USPAT; USOCR	WITH	ON	2006/09/05 15:22
L26	16	25 and (heat or thermal)	US-PGPUB; USPAT; USOCR	WITH	ON	2006/09/05 15:22
S1	1	"5122128".pn.	US-PGPUB; USPAT	WITH	ON	2006/09/05 11:31
S2	1	10/668573	US-PGPUB; USPAT	WITH	ON	2006/09/05 11:32
S3	0	("2004/0106914").URPN.	USPAT	WITH	ON	2006/09/05 11:34
S4	9	("6062461" "6083763" "6114658" "6123861" "6140740" "6171850" "6261584" "6334859" "6491666").PN.	USPAT	WITH	ON	2006/09/05 11:39

## EAST Search History

S5	43	("20020072784" "20020099359" "20020107470" "20020138067" "20020151776" "20020183721" "20020187260" "20030010808" "20030104590" "20030105455" "3692027" "3952741" "4003379" "4146029" "4360019" "4507115" "4585652" "4731049" "5041107" "5167625" "5196002" "5252294" "5254081" "5279607" "5318557" "5366454" "5368588" "5368704" "5427585" "5429822" "5443508" "5474527" "5533995" "5574313" "5797898" "5824204" "5843767" "6062461" "6083763" "6114658" "6123861" "6140740" "6171850" "6261584" "6334859" "6491666" "6527762" "6537256" "6551838" "6656162" "6663615" "6669683" "0976101").PN.	USPAT	WITH	ON	2006/09/05 11:43
S6	4	("4781714" "4874388" "4957494" "5499979").PN.	USPAT	WITH	ON	2006/09/05 11:43
S7	1657	needle array	USPAT	WITH	ON	2006/09/05 11:38
S9	304	S7 and (breakable or rupturable or break or rupture)	USPAT	WITH	ON	2006/09/05 11:52
S10	37	("4003379"   "4360019"   "4507115"   "4585652"   "4793825"   "5167625"   "5170801"   "5196002"   "5318557"   "5366454"   "5368588"   "5368704"   "5443508"   "5547470"   "5797898"   "5798042"   "5948255"   "5962081"   "5972027"   "5989445"   "6123861").PN. OR ("6491666").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2006/09/05 11:40

## EAST Search History

S11	41	("3692027"   "3952741"   "4003379"   "4360019"   "4507115"   "4585652"   "4731049"   "4793825"   "5042975"   "5167625"   "5170801"   "5196002"   "5200051"   "5252294"   "5279607"   "5318557"   "5336213"   "5366454"   "5368588"   "5368704"   "5427585"   "5429822"   "5443508"   "5474527"   "5490962"   "5651900"   "5660680"   "5770076"   "5797898"   "5798042"   "5893974"   "5900160"   "5938923"   "5948255"   "5962081"   "5985328"   "5989445"   "6114658"   "6123861"   "6527762").PN. OR ("6669683").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2006/09/05 11:43
S12	65	("3692027"   "3952741"   "4360019"   "4507115"   "4585652"   "4731049"   "4793825"   "5042975"   "5167625"   "5170801"   "5196002"   "5200051"   "5252294"   "5279607"   "5304293"   "5318557"   "5336213"   "5366454"   "5368588"   "5368704"   "5427585"   "5429822"   "5443508"   "5474527"   "5490962"   "5585069"   "5605662"   "5651900"   "5660680"   "5770076"   "5797898"   "5798042"   "5824204"   "5842787"   "5843767"   "5869004"   "5872010"   "5893974"   "5900160"   "5938923"   "5962081"   "5976101"   "5976336"   "5985328"   "5989445"   "6027695"   "6042710"   "6068752"   "6083763"   "6096656"   "6123861"   "6136212"   "6171850"   "6248540"   "6251688"   "6288888").PN. OR ("6551838").URPN.	US-PGPUB; USPAT; USOCR	WITH	ON	2006/09/05 11:44
S13	166	S7 and expand	USPAT	WITH	ON	2006/09/05 11:53
S14	8	S7 and (expanding material)	USPAT	WITH	ON	2006/09/05 11:54

## EAST Search History

S15	979	needle and (expanding material)	USPAT	WITH	ON	2006/09/05 11:55
S16	50	reservoir (expanding material)	USPAT	WITH	ON	2006/09/05 11:55
S17	928	heat expanding material	USPAT	WITH	ON	2006/09/05 11:55
S18	67	S17 and reservoir	USPAT	WITH	ON	2006/09/05 11:56
S19	112	S16 or S18	USPAT	WITH	ON	2006/09/05 11:56
S20	15	S19 and needle	USPAT	WITH	ON	2006/09/05 11:59
S21	37	S17 and needle	USPAT	WITH	ON	2006/09/05 12:01
S22	0	drug expelled by heat	USPAT	WITH	ON	2006/09/05 12:01
S23	2	drug expelled heat	USPAT	WITH	ON	2006/09/05 12:01
S24	36	drug released heat	USPAT	WITH	ON	2006/09/05 12:05
S25	17	expand heat (expell or deliver) (drug or medicine or chemical)	USPAT	SAME	ON	2006/09/05 12:05